

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002373**Date Inspected:** 18-Nov-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** BG 7AW, East Tower Lift #1, Lift 1 West, O**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**OBG 7AW**

External Base Metal surfaces were initially abrasive blasted to perform VT inspection of welds and identify fabrication defects for grinding operations. Gouges, sharp edges, burrs and fins were identified for grinding operations. Caltrans QA Larry Viars and Tim McClendon were available for VT inspection and mapped accordingly.

**East Tower Lift #1**

Internal Shop primed surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied from 0-9M area prior to installation of additional stiffeners.

**Lift 1 West**

Internal Side Plate floor stiffeners were re-abrasive blasted to an SSPC SP-10 condition and Interzinc 22 re-applied to areas of Faying surfaces and bolted connection assemblies. Profile amplitude was 72-78um located at Panel Points 8.5-9.5. Heat and dehumidification was employed by ZPMC personnel throughout the day and the previous night to achieve and maintain ambient temperatures in compliance with the contract documents and the manufacturer's product data sheets.

**OBG 6AW**

Previously failed area of adhesion testing performed on undercoat was retested in the same location and the value was in excess of 4Mpa minimum value specified.

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## SOURCE INSPECTION REPORT

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Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

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| <b>Inspected By:</b> | Lumley,James | Quality Assurance Inspector |
| <b>Reviewed By:</b>  | Peterson,Art | QA Reviewer                 |

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